

PATENT ABSTRACTS OF JAPAN

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(21) Application number : 59-137651

(71) Applicant : MITSUBISHI PAPER MILLS LTD.

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(54) MANUFACTURE OF RECORDING PAPER

(57) Abstract:

PURPOSE: To prevent a color change by the preservation of a record medium and the color change of a recording picture by including a porous inorganic pigment into an ink receiving layer and obviating the inclusion of a lipophilic vehicle into printing ink.

CONSTITUTION: When marks and/or rulings, etc. are printed onto the surface and/or back of recording paper with an ink receiving layer containing a porous inorganic pigment by using normal printing ink, printing ink used for the titled manufacture is distinguished from normal printing ink, through which marks, rulings, etc. are printed by employing aqueous printing ink in which printing ink does not contain a lipophilic vehicle, as quick set ink according to classification by drying types, oil ink according to classification by the compositions of the vehicles and aqueous ink, and the ink, which does not contain the lipophilic vehicle, represents aqueous ink. A substance in which the primary grains of synthetic silica or synthetic alumina are agglomerated and changed into dried powered bodies having mean secondary grain size of 0.5W30 μ m is used as the porous inorganic pigment.

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===== WPI =====

- TI - Ink jet recording paper mfr. - by printing pattern and/or ruled line on recording paper having porous inorganic pigment-contg. ink accepting layer
- AB - J61016883 Method involves printing pattern and/or ruled line on one or both sides of recording paper which has ink accepting layer contg. porous inorganic pigment, using an ordinary printing machine and water-based ink.
- ADVANTAGE - The recording material has improved resistance to yellowing in storage. Pref. printing machine is a letter press, lithographic printing, gravure printing, etc. machine. Porous inorganic pigment is synthetic silica or alumina of ave. particle size 0.5-30 microns. Water based ink comprises (a) water soluble resin such as starch, dextrin, alginate, cellulose ester, PVA, polyethylene oxide, etc., (b) water solubilisable resin such as shellac, styrene-maleic acid resin, casein, acrylic resin, SBR, etc., (c) water solubiliser such as aq. ammonia, (d) pigment and/or dye, (e) alcohol, (f) water and (g) additives. (5pp Dwg. No.0/0)
- PN - JP61016883 A 19860124 DW198610 005pp
 - JP4052785B B 19920824 DW199238 B41M5/00 005pp
- PR - JP19840137651 19840702
- PA - (MITY) MITSUBISHI PAPER MILLS LTD
- MC - A12-W07D A12-W07F G02-A04A G05-F
- DC - A97 G05 P75
- IC - B41M5/00 ;D21H5/00
- AN - 1986-065404 [10]

===== PAJ =====

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- PA - MITSUBISHI SEISHI KK
- IN - MIYAMOTO SHIGEHICO
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